

## CONSERVATION PRACTICE PHYSICAL EFFECT WORKSHEET

NOTE:

STATE	Caribbean Area	FIELD OFFICE		DATE	
<b>PRACTICE: 314c Brush Management (Chemical)</b>			NOTES:		
RESOURCE: SOIL RESOURCE CONCERN: EROSION			Help Message: Click on form field for choice lists. Tab key to move around. "N/A" is the default.		
<b>RESOURCE INDICATORS</b>			<b>PHYSICAL EFFECTS</b>		
SHEET AND RILL			Slight to moderate decrease because of increase in vegetative cover and better use of soil moisture		
WIND			Slight to moderate decrease because of increase in vegetative cover and better use of soil moisture		
EPHEMERAL GULLY			Slight to moderate long-term decrease depending on soil and type of vegetation.		
CLASSIC GULLY			Slight to moderate long-term decrease depending on soil and type of vegetation.		
STREAMBANK			Negligible		
IRRIGATION INDUCED			Not applicable		
SOIL MASS MOVEMENT			Slight to significant increase because of increased soil moisture and decreased root binding of brush removed on soils prone to slippage		
ROADBANK/CONSTRUCTION			Negligible		
OTHER					
RESOURCE CONCERN: <b>SOIL CONDITION</b>					
SOIL TILTH			Moderate decrease because of increased infiltration and organic matter with more grass. Moderate to significant Improvement with proper change in vegetation		
SOIL COMPACTION			Negligible		
SOIL CONTAMINATION					
• SALTS			Slight to moderate decrease because of improvement with desired vegetative changes		
• ORGANICS			Not applicable		
• FERTILIZERS			Not applicable		
• PESTICIDES			Not applicable		
• OTHER					
DEPOSITION/DAMAGE					
• ONSITE			Slight to moderate decrease of because of improved vegetative cover.		
• OFFSITE			Slight to moderate decrease of because of improved vegetative cover.		
DEPOSITION/SAFETY					
• ONSITE			Slight to moderate decrease of because of improved vegetative cover.		
• OFFSITE			Slight to moderate decrease of because of improved vegetative cover.		
OTHER					

<b>RESOURCE: WATER</b> <b>RESOURCE CONCERN: WATER QUANTITY</b>	
SEEPS	Slight to moderate increase because of increased infiltration and decreased evapotranspiration
RUNOFF/FLOODING	Slight to moderate increase because of increased infiltration and decreased evapotranspiration
EXCESS SUBSURFACE WATER	Slight to moderate increase because of increased infiltration and decreased evapotranspiration
INADEQUATE OUTLETS	Negligible
WATER MGT. IRRIGATION	Negligible to slight decrease because of increased recharge sediment of ground water, increased infiltration and decreased evapotranspiration
• SURFACE	N/A
• SPRINKLER	N/A
WATER MGT. NON-IRRIGATED	Slight to moderate decrease because of increases in moisture availability and plant use efficiency caused by decrease in undesirable species.
RESTRICTED FLOW CAPACITY (H2O convey.)	
• ONSITE	Slight to significant decrease because of decreased sediment load
• OFFSITE	Slight to significant decrease because of decreased sediment load
RESTRICTED STORAGE	Slight to significant decrease because of decreased sediment load
OTHER	

<b>RESOURCE: WATER</b> <b>RESOURCE CONCERN: WATER QUALITY</b>	
<b>RESOURCE INDICATORS</b>	<b>PHYSICAL EFFECTS</b>
<b>GROUNDWATER CONTAMINANTS</b>	
• PESTICIDES	Negligible to slight increase because of increase in infiltration of soluble pesticide, especially in coarse textured soils or materials with fractures. Effects variable by time of application; rainfall time, intensity, and distribution; pesticide form as well as soil and vadose zone, organic matter, texture, structure, macropores and depth to water table.
• NUTRIENTS AND ORGANICS	Negligible
• SALINITY	Negligible
• HEAVY METALS	Negligible
• PATHOGENS	Negligible
• OTHER	
<b>SURFACE WATER CONTAMINANTS</b>	
• PESTICIDES	Negligible to slight increase because of use of chemical depending on pesticide form; time of application; rainfall time, intensity, and distribution; as well as soil and vadose zone factor, organic matter, texture, structure, and macropores.
• NUTRIENTS AND ORGANICS	Negligible
• SUSPENDED SEDIMENTS	Negligible
• LOW DISSOLVED OXYGEN	Negligible
• SALINITY	Negligible
• HEAVY METALS	Negligible

• WATER TEMPERATURE	Slight increase because of loss of riparian brush.
• PATHOGENS	Not applicable.
AQUATIC HABITAT SUITABILITY	Negligible
OTHER	
RESOURCE: <b>AIR</b>	
RESOURCE CONCERN: <b>AIR QUALITY</b>	
AIRBORNE SEDIMENT AND SMOKE PARTICLES	
• ONSITE SAFETY	Negligible
• OFFSITE SAFETY	Negligible
• ONSITE STRUCT. PROBLEMS	Negligible
• OFFSITE STRUCT. PROBLEMS	Negligible
• ONSITE HEALTH	Negligible
• OFFSITE HEALTH	Negligible
AIRBORNE SEDIMENT CAUSING CONVEYANCE PROBLEMS	Negligible
AIRBORNE CHEMICAL DRIFT	Slight increase because of application of chemical.
AIRBORNE ODORS	Slight increase because of chemical application and drift
FUNGI, MOLDS, AND POLLEN	Negligible
OTHER	
RESOURCE CONCERN: <b>AIR CONDITION</b>	
AIR TEMPERATURE	Negligible
AIR MOVEMENT (windbreak effect)	Slight to moderate increase because of reduced wind retardance caused by removal of woody species.
HUMIDITY	Negligible
OTHER	
RESOURCE: <b>PLANT</b>	
RESOURCE CONCERN: <b>SUITABILITY</b>	
<b>RESOURCE INDICATORS</b>	<b>PHYSICAL EFFECTS</b>
SITE ADAPTATION	Not applicable
PLANT USE	Moderate to significant decrease because of decrease of unsuited plants depending on species and method of control, follow-up treatment. and grazing management.
OTHER	
RESOURCE CONCERN: <b>CONDITION</b>	
PRODUCTIVITY	Moderate to significant decrease because of decrease of target species and increase in desirable plant species.
HEALTH, VIGOR, SURVIVAL	Significant decrease because of reduction of competition for sunlight, moisture and nutrients.
OTHER	
RESOURCE CONCERN: <b>MANAGEMENT</b>	
ESTAB., GROWTH, HARVEST	Significant decrease because of reduction of competition
NUTRIENT MANAGEMENT	Significant decrease because of reduction of competition for nutrients.
PESTS	Moderate to significant decrease because of brush removal, slight to significant increase because of disturbed soils and increased growth of annual weeds.

THREAT/ENDANGERED PLANTS	N/A
OTHER	
RESOURCE: <b>ANIMAL</b>	
RESOURCE CONCERN: <b>HABITAT</b>	
FOOD	Slight to moderate increase or decrease because of change in composition in food types and amounts May experience temporary loss or reduction in desired forbs/browse plants.
COVER/SHELTER	Slight to significant increase because of cover removed depending on amount of brush removed and the requirements of the animals. Significant initial short-term loss of cover.
WATER (QUANTITY & QUALITY)	Slight to significant increase because of reduced runoff caused increased infiltration. Slight to decrease because of increased interflow.
OTHER	
RESOURCE CONCERN: <b>MANAGEMENT</b>	
POPULATION BALANCE	Moderate to significant decrease because of feed/forage balance for domestic livestock and to facilitate the harvest of some wildlife species. Slight to significant increase or decrease depending upon the species.
THREAT/ENDANGERED ANIMALS	N/A
HEALTH	Slight to significant decrease because of reduction in harmful insect population, such as flies and ticks.
OTHER	
RESOURCE: <b>HUMAN</b>	
RESOURCE CONCERNS: <b>ECONOMIC CONSIDERATIONS</b>	
PLAN / COST EFFECTIVENESS	N/A
CLIENT FINANCIAL CONDITION	N/A
MARKETS FOR PRODUCTS	N/A
AVAILABLE LABOR	N/A
AVAILABLE EQUIPMENT	N/A
RESOURCE: <b>HUMAN</b>	
RESOURCE CONCERN: <b>SOCIAL CONSIDERATIONS</b>	
<b>RESOURCE INDICATORS</b>	<b>PHYSICAL EFFECTS</b>
PUBLIC HEALTH AND SAFETY	N/A
PRIVATE/PUBLIC VALUES	N/A
CLIENT CHARACTERISTICS	N/A

RISK TOLERANCE	N/A
TENURE	N/A
OTHER	
RESOURCE CONCERN: <b>CULTURAL CONSIDERATIONS</b>	
ABSENCE/PRESENCE OF CULTURAL RESOURCES	N/A
SIGNIFICANCE OF CULTURAL RESOURCES	N/A
MITIGATION OF NEGATIVE CULTURAL RES. IMPACTS	N/A
OTHER	